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(54) Title: ANTIBODY TOOLS FOR THE DIAGNOSTIC USE IN THE MEDICAL THERAPY WITH INHIBITORS OF HIS-
TONE DEACETYLASES

(57) Abstract: The invention relates to a method for determining whether a treatment of a disorder with an HDAC inhibitor is to
be started/continued or not comprising determining the level of histone acetylation in the sample by use of an antibody capable
of binding to acetylated histone, and classifying the disorder as to be treated with an HDAC inhibitor when the level of histone
acetylation is significantly lower than that of a reference sample. The invention further relates to the diagnostic and prognostic use
of specific antibodies and cell lines producing them.

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